

Figure 1.

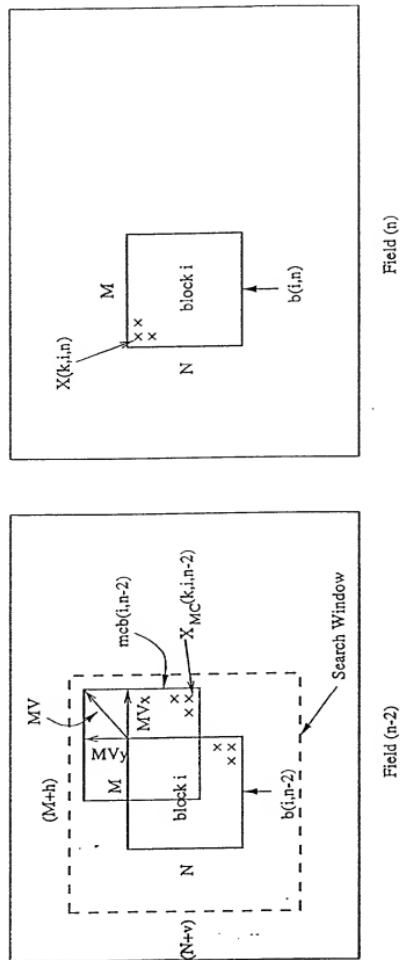


Figure 2.

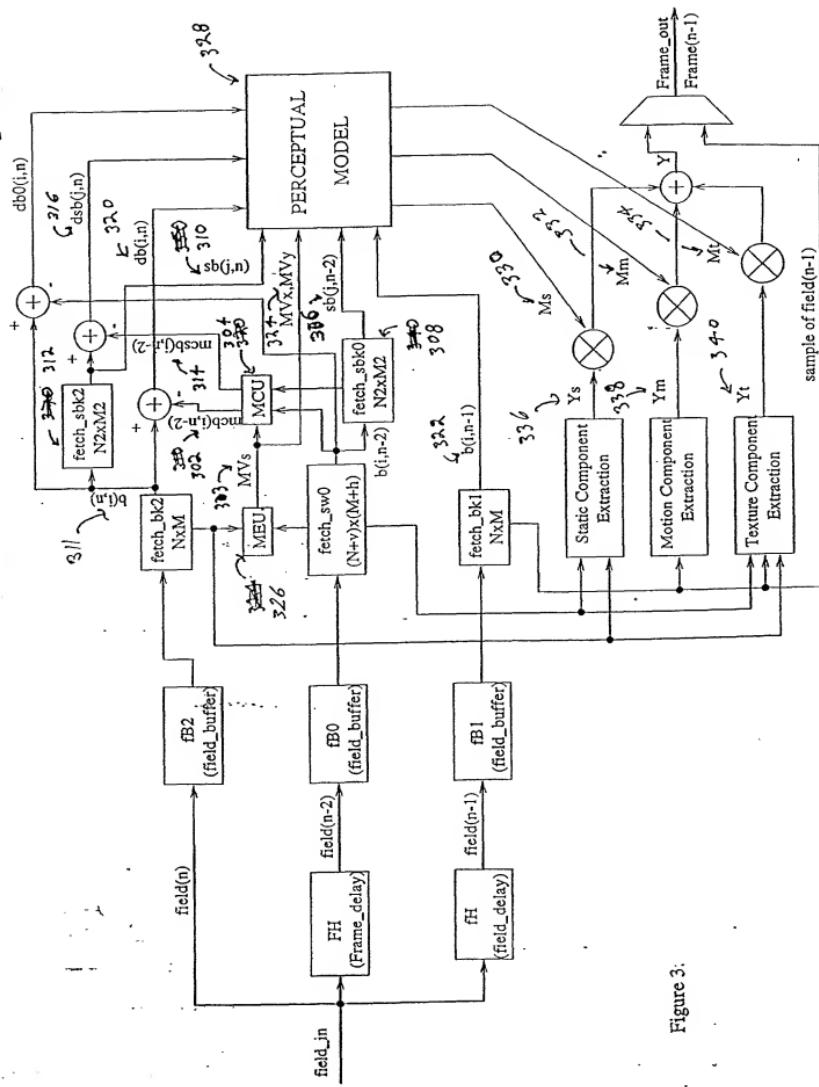


Figure 3:

102207-27942007

Attorney Docket No.: M-11805 US
 First Inventor: Nader Mohsenian
 Title: Video Data De-Interlacing Using Perceptually-Tuned
 Interpolation Scheme

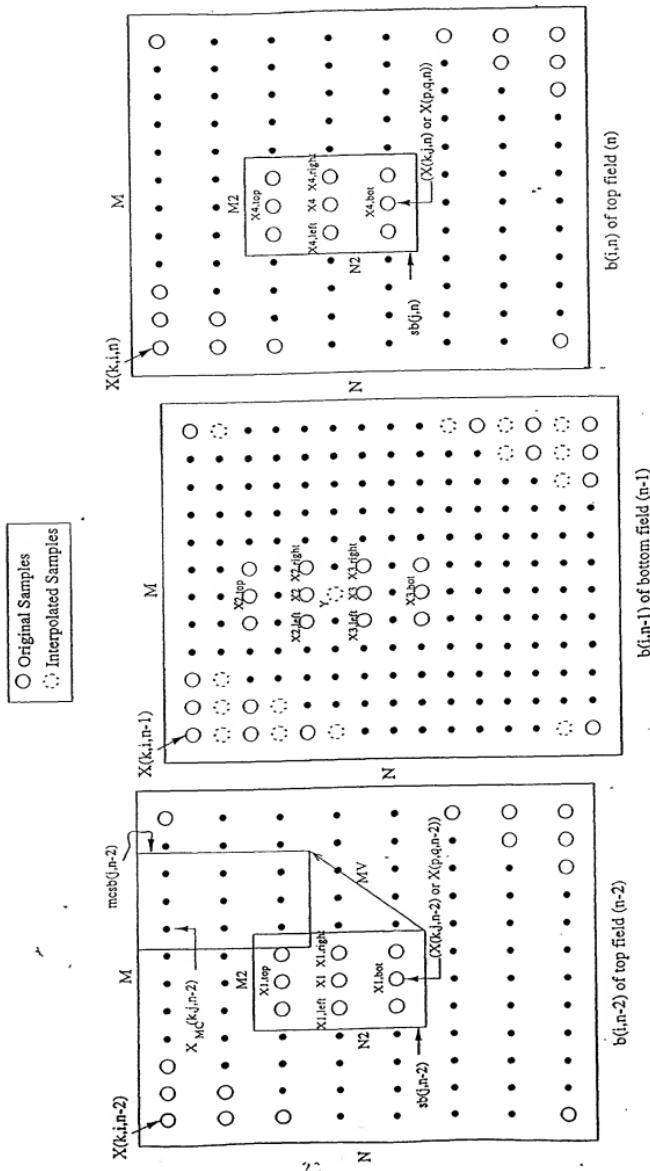


Figure 4:

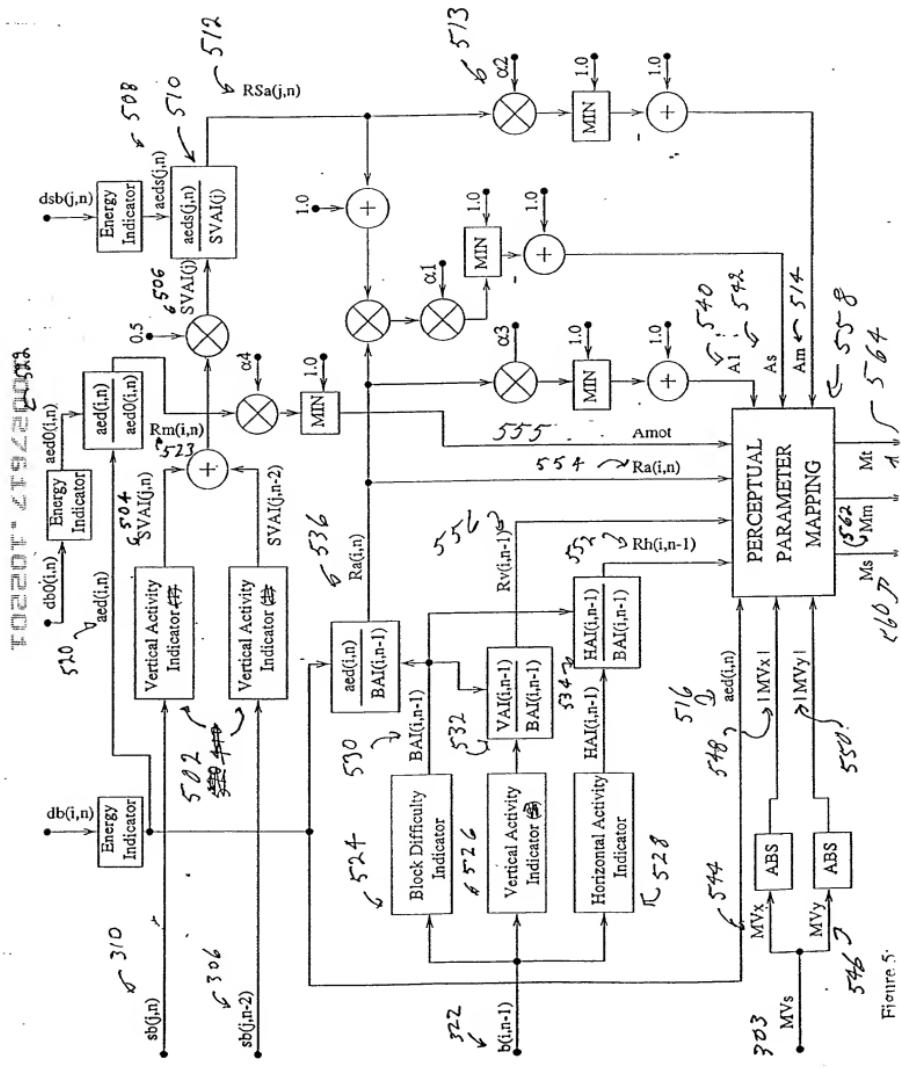


Figure 5.

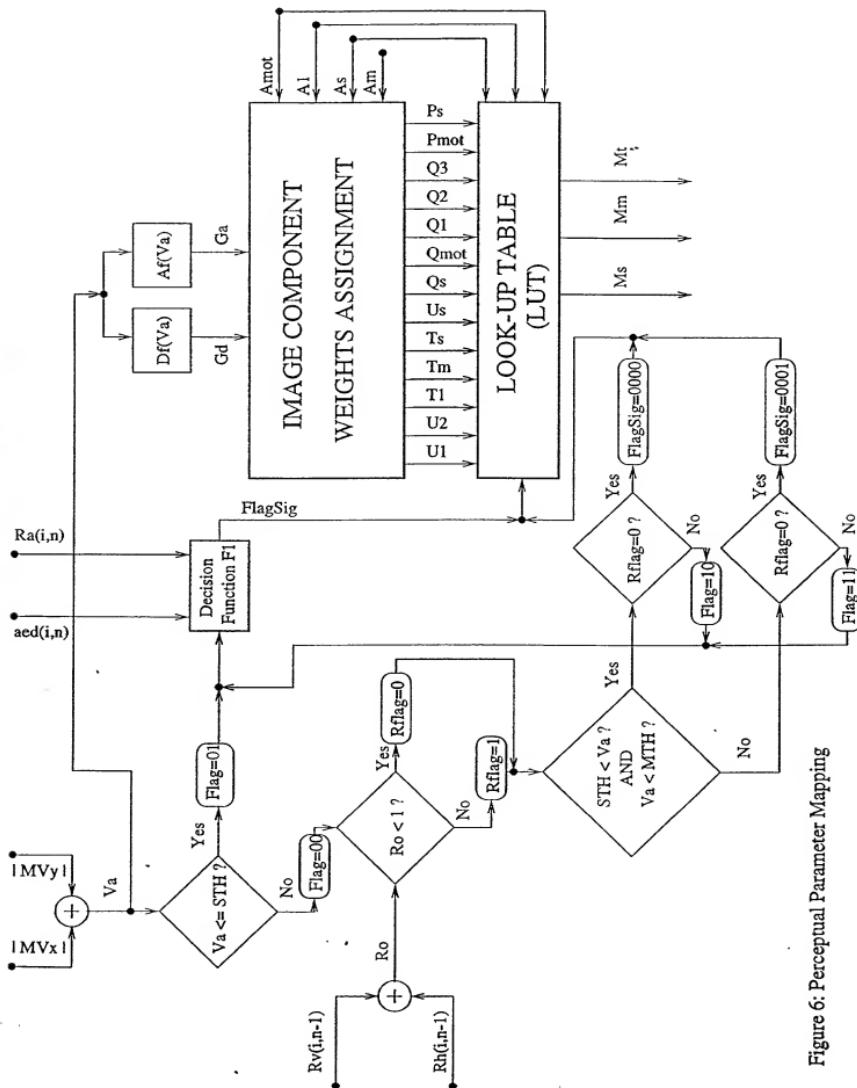


Figure 6: Perceptual Parameter Mapping

FlagSig	M _S	M _m	M _t
0000	0	U2	T _S
0001	0	Q3	A _{mot}
0100	A1	Q1	0
0101	0	Q2	A _S
0110	P _S	Q2	Q _S
1000	T1	U1	0
1001	0	U2	T _S
1010	T _m	U2	U _S
1100	A _{mot}	Q3	0
1101	0	Q3	A _{mot}
1110	P _{mot}	Q3	Q _{mot}

Figure 7: One-to-one mapping between FlagSig and LUT Coefficients

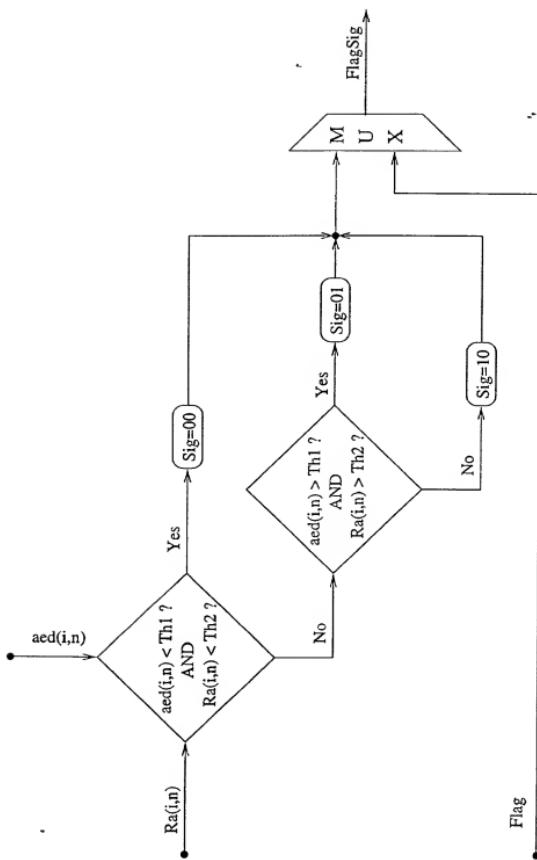


Figure 8: Decision Function F1

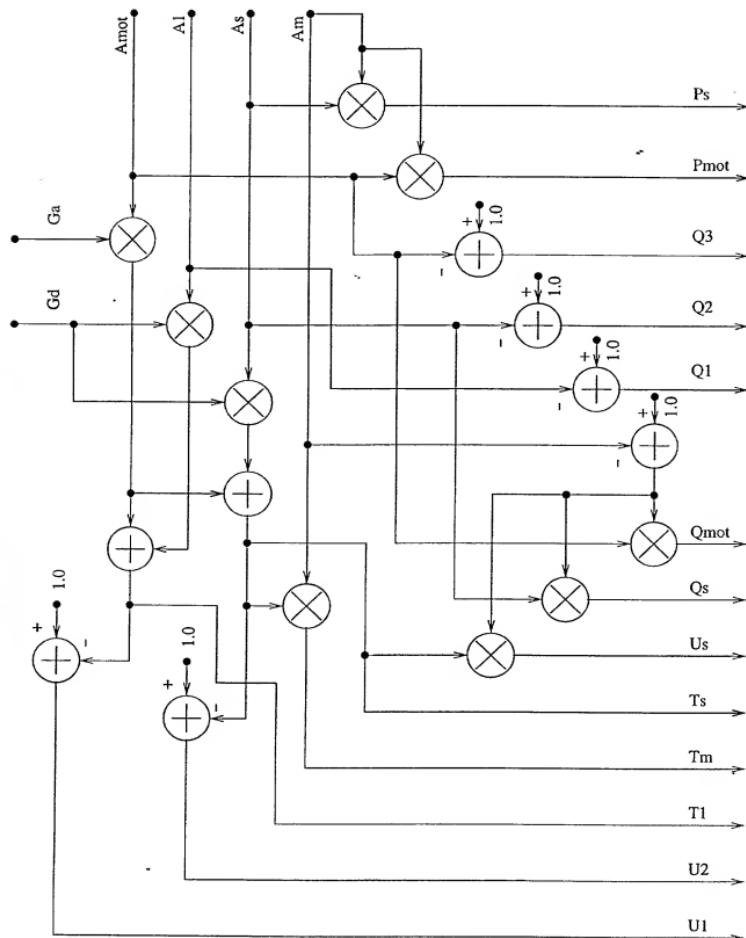


Figure 9: Image Component Weights Assignment